

ULTRA TRED 100% WATERBORNE 2 COMPONENT EPOXY, 58XX-SERIES

DESCRIPTION:

Two Component, Modified Aliphatic Amine catalyzed 100% WATERBORNE EPOXY for heavy duty performance of conventional solvent base epoxies. This low odor, non-flammable, super hard, tile-like, high gloss finish is highly resistant to graffiti and common stains such as coffee, ketchup, fruit juice, crayon, lipstick, ink, etc. Its chemical, solvent and water resistance properties are far superior to that of typical water base acrylic epoxies. It has excellent abrasion resistance and can be used on concrete floors. It may be applied over conventional finishes without lifting or wrinkling.

COLORS:

White, gray and Bases. Can be tinted to any color using universal colorants.

USES:

Interior institutional and commercial high maintenance areas where maximum protection is required. Recommended for use on any new or previously painted surfaces such as concrete blocks, masonry, wallboard, wood, plaster, ceramic tile and properly treated metal surfaces. Excellent for use in schools, hospitals, nursing homes, commercial kitchens and cafeterias, restaurants, bakeries, food and beverage facilities, laboratories, chemical plants and factories. **DO NOT USE ON WOODEN FLOORS OR. FOR UNDER WATER APPLICATIONS.**

**PHYSICAL
PROPERTIES:**

Product Type	Epoxy/Aliphatic Amine Adduct
Weight/Gal. (Catalyzed):	9.6-10.9 Lbs./Gal.
Activated Viscosity	90-100 KU
60 Degree Gloss	90 +
20 Degree Gloss	80 +
Dry to Touch	4-6 Hrs. (@ 77 F & 50% RH)
Tack Free	8-10 Hrs. (@ 77 F & 50% RH)
Dry Hard	Overnight
Full Cure	
to put in service	4-7 Days. Allow minimum of 7 days dry time before vehicular traffic or exposure to heavy industrial use.
Recoat	Within 8 hrs. and 2 days after application without sanding. Must be sanded lightly if allowed to dry longer between coats.
Mix Ratio	3 to 1 (Parts A:B) by Volume
Induction Time	20-30 Minutes after mixing
Pot Life (Catalyzed)	4 Hrs. (@ 77 F & 50% RH)
Shelf Life(Unopened)	18 Months Minimum
Reducer/Cleaner	Water
Weight Solids (Catalyzed)	48.4-56.1 %
Volume Solids (Catalyzed)	42.6-43.8 %
VOC (Before Colorants)	250 Gms./Ltr. Maximum
Flash Point	N/A

**PHYSICAL
PROPERTIES
(cont.):**

Tinting	Add colorants to Component-A then put on shaker for mixing. Component-B should be added just before using and stirred well by hand or mechanical hand mixer. DO NOT MIX COMPONENT-B ON A SHAKER.
Coverage	300-350 Sq./Gal. over smooth surfaces. Coverage will be reduced over rough and porous surfaces.
Recommended Dry Film Wet Film	2.0 mils per coat. 5.0 mils per coat.

**PERFORMANCE
PROPERTIES**

Flow & Leveling	Excellent
Sag Resistance	8-9
Defoaming (Brush/Roll)	Excellent, no air entrapment.
Color Acceptance	Excellent, no rub up.
Freeze Thaw (ASTM D2243)	Component-A, Passes 3 Cycles. Component-B, Passes 3 Cycles.
Taber Wear Index	80-120
Pencil Hardness (ASTM D3363)	4H+
Sward Hardness (ASTM D2134)	60
Cleveland Humidity Resistance	100 hrs. No Effect.
Salt Spray Resistance	100 hrs., Very Fine Blisters,
Direct Impact	1/16" Creep. 14-25" 2 Lbs. Weight
Reverse Impact	14-25" 2 Lbs. Weight

**CROSS HATCH
ADHESION
(ASTM D3357):**

Galvanized Metal	5B
Cold Rolled Steel	5B
Aluminum	5B
Coil Coated Aluminum	5B
Wood	5B
Concrete	5B

**CHEMICAL
RESISTANCE
(ASTM D1308):**

Spot test covered in hr.	
MEK Double Rubs	100+
Acetone	No Effect
Xylene	No Effect
Toluene	No Effect
Mineral Spirits	No Effect
Denatured Alcohol	No Effect
Methanol	No Effect
Isopropyl Alcohol	No Effect
5% Sodium Hypochlorite	No Effect
10% Sodium Hydroxide	No Effect
5% Glacial Acetic Acid	No Effect
10% Hydrochloric Acid	No Effect
10% Sulfuric Acid	No Effect
10% Nitric Acid	Very Slight Stain
10% Phosphoric Acid	No Effect
Gasoline	No Effect
Motor Oil	No Effect
Brake Fluid	Slightly Tacky
Transmission Oil	No Effect
Distilled Water	No Effect
Ammonia	No Effect

**GRAFFITI
RESISTANCE:**

(Cleaned off with Acetone & Denatured Alcohol)

Black Magic Marker	No Effect
Brown Magic Marker	No Effect
Yellow Magic Marker	No Effect
Black Felt Tip Pen	Slight Stain
Red Felt Tip Pen	Stain
Blue Ball Point Pen	Slight Stain
Pencil	No Effect
Lipstick	No Effect
Crayon	No Effect
Vinegar	No Effect
Butter	No Effect
Mustard	Slight Stain
Ketchup	No Effect
Coffee	No Effect
Fruit Juices	No Effect

**SURFACE
PREPARATION:**

Thoroughly clean new and Previously painted surfaces to remove dirt, oil, grease, wax, loose paint, rust, efflorescence, chalk and other contaminants that could interfere with adhesion. Clean failed areas on Previously coated surfaces by hand or using a power tool (SSPC-.Sp-2 or SP-3) and spot prime. Galvanized steel and non-ferrous metal should receive solvent cleaning (SSPC-SP1) Glossy enamels must be dulled by sanding before topcoating with Muralo Waterborne Epoxy.

**RECOMMENDED
PRIMERS:**

CONCRETE - Self Priming or Block Filler.

DRYWALL - Muralo 563, Latex Enamel Undercoat or 2205, Universal Primer.

WOOD - Muralo 2205, Universal Primer. New staining woods such as redwood and cedar should be primed with Solvent Base Stain Killing Primer.

RUSTABLE METAL - Muralo 1877 or 1878, Anti-Rust Alkyd Primer.

GALVANIZED STEEL AND ALUMINUM - Self Priming.

PLEXIGLAS, FIBERGLASS AND NON-RUSTING METAL - Muralo X-200, Oil Base Primer.

PREVIOUSLY PAINTED SURFACES - Self Priming.

APPLICATION:

Brush, Roller or Spray.

Conventional Spray:	Binks	Devlbiss	Graco
Gun	#18 or #62	JGA 502 or MBC- 510	800 or 900
Fluid Nozzle	66 or 67	E or D	047 or 086
Air Cap	66PE or 67PB	704, 765 or 78	047 or 952

Airless Spray:

Pump 23:1 Monarch or 30:1 Bulldog (Graco)

High Pressure Filter: 60 Mesh

Fluid Hose 1/4" x 50' or 3/8" x 100'

Airless Gun 208-663 Graco

Tips .015 or .019 Reverse-a-Clean

Minimum Pressure 2000 PSI

NOTE: KEEP FROM FREEZING. Do not apply when air or surface temp. is below 55F or above 100F. Relative humidity should be below 90%

CLEAN-UP:

Soap and warm water. If necessary, use lacquer thinner or Hi-Flash Naphtha.

FORMULATION:	Part-A	MAJOR INGREDIENTS Aliphatic Amine Aqueous Solution Ethylene Glycol Monobutyl Ether Titanium Dioxide Defoamer Water		
	Part-B	Water Dispersible Epoxy Resin Ethylene Glycol Monobutyl Ether Water		
USDA:	Will pass the requirements of USDA for incidental food contact in meat and poultry processing plants.			
FIRE RATING:	Will pass “ CLASS-A “ Rating on noncombustible substrate such as glass-reinforced cement board when tested according to ASTM E84-90 which is similar to NFPA No. 255, UL No. 723 and UBC No. 42-1.			
PACKAGING:	Two component system available in gallon kits. Mix ratio is 3:1 (A:B).			
	Component -A Short-filled Gallon (3 Qts.)	Component-B Full Quart	Mixed Volume 1 Gallon	
DISPOSAL:	Save for local community waste paint collection. Follow local community waste disposal guidelines. Empty containers may be recycled by your local community recycling program.			
CAUTION:	Contains Petroleum Distillate Combustible. Contains glycol ether and petroleum distillates. Avoid prolonged breathing of vapors or spray mist. Wear gloves, safety goggles and respiratory protection (NIOSH/MSHA TC23C or equivalent). Avoid contact with eyes and skin. Wash hands after using. Close container after each use.			
	FIRST AID: If swallowed, do not Induce vomiting, call Physician, Hospital Emergency Room or Poison Control Center. PROTECT FROM FREEZING. Use only with adequate ventilation. DO NOT TAKE INTERNALLY KEEP OUT OF REACH OF CHILDREN.			
ARCHITECTS SPECIFICATIONS:	Surfaces noted in the accompanying schedule, after receiving the proper prepainting treatment described, shall be finished with one or two coats of (specify number of coats and colors) Muralo Waterborne Epoxy.			
	It shall be delivered in the original unopened cans and applied in accordance with directions furnished by the Muralo Company, Inc., manufacturers of this product whose directions are made a part of these specifications.			

DISCLAIMER

The information contained herein is presented in good faith. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these Materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

NOTICE: Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. Exposure to lead dust or fumes may cause adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup.
For additional information, contact the USEPA/Lead information Hotline at 1-800-LEAD-FYI.